B6.Cg-Selplg \textsuperscript{tm1Fur/J}

Stock No: 004201 | PSGL-1 KO

Congenic, Targeted Mutation

Request Cryorecovery

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Also Known As: PSGL-1 KO

These Selplg knock-out mice exhibit mild neutrophilia.

Donating Investigator

Bruce Furie, Beth Israel Deaconess Med Cntr (Harvard)

Genetic Overview

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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Selplg\textsuperscript{tm1Fur}

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Selplg</td>
<td>selectin, platelet (p-selectin) ligand</td>
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Research Applications

Research Tools
Immunology, Inflammation and Autoimmunity Research
Hematological Research
Internal/Organ Research
Cell Biology Research

Base Price
Details

Detailed Description
Mice that are homozygous for the targeted mutation are viable, normal in size and do not display any gross physical or behavioral abnormalities. No targeted allele product (mRNA or protein) is detected by Northern blot or immunoassay. Mutant mice exhibit mild neutrophilia. Impaired early neutrophil migration in thioglycolate-induced peritonitis is followed by a delayed recovery to nearly normal levels. Although early trauma-induced leukocyte adhesion and migration is greatly reduced and in vivo leukocyte rolling (leukocyte-endothelial cell interaction) in postcapillary venules is severely decreased, cytokine-induced/E selectin-mediated leukocyte rolling is only slightly reduced in the mutant mice. This mutant mouse strain represents a model that may be useful in studies of leukocyte adhesion and migration in the inflammatory response.

Development

Control Suggestions

Selected References

Genetics

Selplg<sup>tm1fur</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Standard PCR: Selplg<sup>tm1Fur</sup>
Genotyping resources and troubleshooting

Breeding Considerations
This strain originated on a STOCK background, has been backcrossed for 5 generations on the C57BL/6J background before being made homozygous. Coat color expected from breeding: Black
Additional Breeding and Husbandry Support

Citation
When using the DS-CL-1 KO mouse strain in a publication, please cite the originating article(s) and include JAX stock #004201 in your Materials and Methods section.
Facility Barrier Level Descriptions
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
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</thead>
<tbody>
<tr>
<td>Cryorecovery - Domestic Pricing</td>
<td>Pricing effective for USA, Canada and Mexico shipping destinations</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Selplg&lt;sup&gt;tm1Fur&lt;/sup&gt;</td>
<td>$2,595.00</td>
</tr>
</tbody>
</table>

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

Related Products and Services

| Frozen Mouse Embryo | $2,595.00 per straw or vial |

Payment Terms and Conditions
Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered
are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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**Licensing Information**

Phone: 207-288-6470
Email: TechTran@jax.org

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